

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An air cleaner comprising:

a disk;

a filter formed on a peripheral portion of said disk, said filter being formed along the peripheral portion of said disk so as to surround an inside area of said disk, and said filter being bent into a wave-shape such that irregularities of the wave are formed in a generally radial direction of said disk;

means for rotating said disk;

means for blowing steam to said filter from an outside surface of said filter to the inside area of the disk;

a tank, said tank receiving water generated by condensation of said steam; and

a passage, said passage guiding said water to said tank tank; and

~~means for decreasing a rotational speed of said filter.~~

2. (Original) An air-humidifier which is the air cleaner according to claim 1, wherein said filter retains water.

3. (New) The air cleaner according to claim 1, further comprising a casing enclosing said disk and said filter, said casing having at least one air inlet through which air to be cleaned is inhaled into the space surrounded by said filter, said casing having at least one air outlet formed on the portion of said casing that surrounds said filter, air discharged

through said filter being discharged to the outside of said casing through said at least one air outlet.

4. (New) The air cleaner according to claim 3, further comprising means for reducing air flow through a gap between an edge of said filter opposite to said disk and said casing, said means for reducing air flow being formed on said edge of said filter, and said edge is opposite to said disk.

5. (New) The air cleaner according to claim 4, wherein said means for reducing air flow is an annular sealing plate which covers the entire said edge, said annular sealing plate is formed on said edge of said filter.

6. (New) The air cleaner according to claim 5, wherein at least one annular ridge protruding to the direction opposite to said filter is formed on said sealing plate, and at least one annular ridge protruding to the direction of said sealing plate is formed on the region of said casing, and said region faces said sealing plate.

7. (New) The air cleaner according to claim 6, wherein a plurality of said ridges are formed on at least one of said region of said casing facing said sealing plate and said sealing plate, and a tip portion of an opposing ridge is inserted into the space between adjacent two ridges of said plurality of ridges.

8. (New) The air cleaner according to claim 4, wherein said means for reducing air flow is an annular elastic member which closes said gap, said elastic member being formed on said edge of said filter or on said casing.

9. (New) The air cleaner according to claim 5, wherein said means for reducing air flow is an annular elastic member which closes said gap, said elastic member being formed on said edge of said filter or on said sealing plate, or on said casing.

10. (New) The air cleaner according to claim 1, further comprising means for decreasing a rotational speed of said filter.

11. (New) An air cleaner comprising:

- a disk, said disk being rotatable;
- a filter formed on a peripheral portion of said disk, said filter being formed along the peripheral portion of said disk so as to surround an inside area of said disk, and said filter being bent into a wave-shape such that irregularities of the wave are formed in a generally radial direction of said disk;
- a steamer, said steamer blowing steam to said filter from an outside of said filter to the inside area of the disk;
- a tank, said tank receiving water generated by condensation of said steam; and
- a passage, said passage guiding said water to said tank.

12. (New) An air-humidifier which is the air cleaner according to claim 11, wherein said filter retains water.

13. (New) The air cleaner according to claim 11, further comprising a casing enclosing said disk and said filter, said casing having at least one air inlet through which air to be cleaned is inhaled into the space surrounded by said filter, said casing having at least one air outlet formed on the portion of said casing that surrounds said filter, air discharged through said filter being discharged to the outside of said casing through said at least one air outlet.

14. (New) The air cleaner according to claim 13, further comprising means for reducing air flow through a gap between an edge of said filter opposite to said disk and said casing, said means for reducing air flow being formed on said edge of said filter, and said edge is opposite to said disk.

15. (New) The air cleaner according to claim 14, wherein said means for reducing air flow is an annular sealing plate which covers the entire said edge, said annular sealing plate is formed on said edge of said filter.

16. (New) The air cleaner according to claim 15, wherein at least one annular ridge protruding to the direction opposite to said filter is formed on said sealing plate, and at

least one annular ridge protruding to the direction of said sealing plate is formed on the region of said casing, and said region faces said sealing plate.

17. (New) The air cleaner according to claim 16, wherein a plurality of said ridges are formed on at least one of said region of said casing facing said sealing plate and said sealing plate, and a tip portion of an opposing ridge is inserted into the space between adjacent two ridges of said plurality of ridges.

18. (New) The air cleaner according to claim 14, wherein said means for reducing air flow is an annular elastic member which closes said gap, said elastic member being formed on said edge of said filter or on said casing.

19. (New) The air cleaner according to claim 15, wherein said means for reducing air flow is an annular elastic member which closes said gap, said elastic member being formed on said edge of said filter or on said sealing plate, or on said casing.

20. (New) The air cleaner according to claim 11, further comprising means for decreasing a rotational speed of said filter.